	Application No.	Applicant(s)
Notice of Allowability	10/679,361	FURUHATA ET AL.
	Examiner	Art Unit
	Paul Huber	2653
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm IGHTS. This application is	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to		
2. The allowed claim(s) is/are <u>1-3</u> .		
3. \boxtimes The drawings filed on <u>07 October 2003</u> are accepted by the	e Examiner.	
 4.	e been received. e been received in Application of the communication to file MENT of this application. Initted. Note the attached EX es reason(s) why the oath of the submitted. Son's Patent Drawing Reviews Amendment / Comment of the header according to 37 Cost of BIOLOGICAL MAT	on No ed in this national stage application from the e a reply complying with the requirements AMINER'S AMENDMENT or NOTICE OF or declaration is deficient. w (PTO-948) attached or in the Office action of the drawings in the front (not the back) of FR 1.121(d). TERIAL must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date	6. ☐ Interview S Paper No 08), 7. ☑ Examiner's	Informal Patent Application (PTO-152) Summary (PTO-413), ./Mail Date S Amendment/Comment S Statement of Reasons for Allowance PRIMARY EXAMINES

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EXAMINER'S AMENDMENT & REASONS FOR ALLOWANCE

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In the specification, page 4, line 14; " α 2 = tan⁻¹((B-A/f)" "was changed to -- " α 2 = tan⁻¹((B-A)/f)" --. In claim 3, line 18; " α 2 = tan⁻¹((B-A/f)" "was changed to -- " α 2 = tan⁻¹((B-A)/f)" --. The amendments were made in order to provide a close bracket for the next previous open bracket.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references cited on the PTO-892 each disclose an optical pickup apparatus including a first and second light source.

The following is an examiner's statement of reasons for allowance: the prior art of record considered as a whole fails to teach or suggest either:

1) an optical pickup apparatus comprising: a first light source for emitting a first laser beam having a first wavelength; a second light source of emitting a second laser beam having a second wavelength; and an objective lens for condensing the first laser beam and the second laser beam, wherein the first light source and the second light source are disposed in positions in such a way that a total amount of coma aberration, which is generated on the first laser beam in accordance with a distance between the first light source and an optical axis of a whole optical system and coma aberration, which is generated on the first laser beam in accordance with a tilting amount of the objective lens becomes null, and a total amount of coma aberration, which is generated on the second light source and the optical axis and coma aberration, which is generated on the second laser beam in accordance with the tilting amount of the objective lens becomes null;

2) an optical pickup apparatus comprising: a first light source for emitting a first laser beam having a first wavelength; a second light source for emitting a second laser beam having a second wavelength; a collimator lens for transforming the first laser beam and second laser beam to parallel beams; and an objective lens for condensing the parallel beams, wherein the first light source and second light source are disposed in positions in such a way that a total amount of coma aberration, which is generated on the first laser beam due to an image height relative to an optical axis of a whole optical system, which is generated in accordance with a first angle of incidence at which the first laser beam is launched into the collimator lens, and coma aberration, which is

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generated on the first laser beam in accordance with a tilting amount of the object lens becomes null, and a total amount of coma aberration, which is generated on the second laser beam due to an image height relative to the optical axis, which is generated in accordance with a second angle of incidence at which the second laser beam is launched into the collimator lens and coma aberration, which is generated on the second laser beam in accordance with the tilting amount of the objective lens becomes null; or

3) an optical pickup apparatus comprising: a first light source for emitting a first laser beam having a first wavelength; a second light source for emitting a second beam having a second wavelength; a collimator lens for transforming the first laser beam and the second laser beam to parallel beams; and an objective lens for condensing the parallel beams, wherein a distance B between the second light source and an optical axis of a whole optical system is expressed by a following formula: $B = (g \cdot H \cdot A) / (g \cdot H - G \cdot h)$, where "A" is a distance between the first light source and second light source, "B" is a distance between the first light source and the optical axis, "h" is an increasing rate in an amount of coma aberration of the first laser beam relative to a first angle of incidence " $\alpha 1 = \tan^{-1}(B/f)$ " at which the first laser beam is launched into the collimator lens, "H" is an increasing rate in an amount of coma aberration of the second laser beam relative to a second angle of incidence " $\alpha 2 = \tan^{-1}((B-A)/f)$ " at which the second laser beam is launched into the collimator lens, "g" is an increasing rate in an amount of coma aberration of the first laser beam relative to a tilt angle of the objective lens and "G" is an increasing rate in an amount of coma aberration of the second laser beam relative to the tilt angle of the objective lens. (bold language emphasized).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Huber whose telephone number is 703-308-1549.

Paul Huber Primary Examiner Art Unit 2653